## PATENT COOPERATION TREAT XEC'D 0 8 AUG 2005

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER AC	ITON	See Form PCT/IPEA/416		
PEA020306PCT International application No.	International filing date (	dav/month/vear)	Priority date (day/month/year)		
PCT/US04/27172	20 August 2004 (20.08.2		21 August 2003 (21.08.2003)		
	International Patent Classification (IPC) or national classification and IPC				
IPC(7): C07C 27/00; C07C 27/20; B01J 23/00,23/40,23/58,23/60;B01J 8/18 and US C1.: 518/700,702,704,713,714,568/909					
Applicant					
PEARSON TECHNOLOGIES, INC.					
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of $\frac{1}{2}$ sheets, including this cover sheet.					
3. This report is also accompanied by ANNEXES, comprising:					
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relating to the following items:					
Box No. I B	sis of the report				
Box No. II Pr	iority .				
1	on-establishment of opinion with regard to novelty, inventive step and industrial plicability				
Box No. IV La	ck of unity of invention				
	asoned statement under Article 35(2) with regard to novelty, inventive step or lustrial applicability; citations and explanations supporting such statement				
	rtain documents cited				
Box No. VII C	rtain defects in the international application				
	rtain observations on the international application				
Date of submission of the demand		Date of completion	of this report		
17 June 2005 (17.06.2005)		30 July 2005 (30.07.2005)			
Name and mailing address of the IPEA/ US  Mail Stop PCT, Attn: IPEA/US  Commissioner for Patents  P.O. Box 1450		Authorized officer Javar Parsa Ve Bell-Harrage			
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. (571)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Form PCT/IPEA/409 (cover sheet)(January	2004)				

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	-
PCT/US04/27172	

Box No. I Basis of the report				
1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.				
This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:				
international search (under Rules 12.3 and 23.1(b))				
publication of the international application (under Rule 12.4)				
international preliminary examination (under Rules 55.2 and/or 55.3)				
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
the international application as originally filed/furnished				
the description:				
pages 1-23 as originally filed/furnished pages* NONE received by this Authority on				
pages* NONE received by this Authority on				
the claims:				
pages <u>24-36</u> as originally filed/furnished				
pages* NONE as amended (together with any statement) under Article 19				
pages* NONE received by this Authority on				
pages* NONE received by this Authority on				
the drawings:				
pages 1-4 as originally filed/furnished				
pages* NONE received by this Authority on  pages* NONE received by this Authority on				
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3. The amendments have resulted in the cancellation of:				
the description, pages				
the claims, Nos.				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
the description, pages				
the claims, Nos				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
* If item 4 applies, some or all of those sheets may be marked "superseded."				

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/27172

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims 1-67	YES			
	Claims NONE	NO			
Inventive Step (IS)	Claims 1-67	YES			
· ,	Claims NONE	NO			
Industrial Applicability (IA)	Claims 1-67	YES			
	Claims NONE	NO			
not include germanium.  NEW CITATIONS					